AMENDMENTS TO THE CLAIMS:

This listing will replace all prior versions of claims in the above-referenced application.

Listing of Claims:

1. (Currently Amended) An LCD control unit for driving an LCD panel in an LCD device, said LCD control unit, comprising:

a signal controller for generating a voltage address signal and a polarity control signal;

a voltage generator block, directly coupled to said signal controller, for internally generating a plurality of (n) γ-voltage levels and a plurality of (m) Vcom-voltage levels, said voltage generator block including a voltage selecting block, wherein output of said voltage generating block is selected by said voltage selecting block from said plurality of (n) γ-voltage levels and said plurality of (m) Vcom-voltage levels according to a value of said voltage address signal input to said voltage generator block;

an impedance converter block, coupled to said signal controller and coupled to and separate from said voltage generator block, that converts input impedances of the γ-voltage levels and the Vcom-voltage levels provided by said voltage generator block and provides as output a specified number of said γ-correction voltages and said Vcom voltage according to a value of ~~an input~~ said polarity control signal; and

an LCD driver for generating a set of display data signals based on a set of external data signals, wherein said LCD driver receives said specified number of said γ-correction voltages output from said impedance converter and includes a γ-correction section for correcting voltages of said display data signals based on said specified number of said γ-correction voltages.

2. (Original) The LCD control unit as defined in claim 1, wherein said voltage address signal and said polarity control signal are generated based on a software as time series signals.

3. (Previously Presented) The LCD control unit as defined in claim 1, wherein said voltage generator block includes a resistor string for generating n × L voltage levels, n first decoders for selecting said n γ-voltage levels from said n × L voltage levels based on said voltage address signal, and m second decoders for selecting said m Vcom-voltage levels from said n × L voltage levels based on said voltage address signal, given number L being an integer.

4. (Original) The LCD control unit as defined in claim 1, wherein said specified number of γ-correction voltages are a pair of γ-correction voltages.

5. (Original) The LCD control unit as defined in claim 4, wherein said voltage selecting block alternately selects said pair of γ-correction voltages having a positive polarity and said pair of γ-correction voltages having a negative polarity, with respect to said Vcom voltages.

6. (Original) The LCD control unit as defined in claim 1, wherein said voltage generator block includes a resistor string for generating a plurality of voltage levels, a decoder for decoding said voltage address signal, and a selector for selecting one of said γ-voltage levels or one of said Vcom voltage levels.

7. (Original) The LCD control unit as defined in claim 1, wherein said LCD control unit is a one-chip IC.

Claims 8 - 11 (Cancelled)

12. (Currently Amended) A display control unit for driving a display panel in a display device, said display control unit comprising:

a signal controller for generating a voltage address signal and a polarity control signal;

a voltage generator block, directly coupled to said signal controller, for internally generating a plurality of (n) γ-voltage levels and a plurality of (m) Vcom-voltage levels, said voltage generator block including a voltage selecting block, wherein output of said voltage generating block is selected by said voltage selecting block from said plurality of (n) γ-voltage levels and said plurality of (m) Vcom-voltage levels according to a value of said voltage address signal input to said voltage generator block;

an impedance converter block, coupled to said signal controller and coupled to and separate from said voltage generator block, that converts input impedances of the γ-voltage levels and the Vcom-voltage levels provided by said voltage generator block and provides as output a specified number of said γ-correction voltages and said Vcom voltage according to a value of ~~an input~~ said polarity control signal; and;

a display driver for generating a set of display data signals based on a set of external data signals, wherein said display driver receives said specified number of said γ-correction voltages output from said impedance converter and includes a γ-correction section for correcting voltages of said display data signals based on said specified number of said γ-correction voltages.

13. (Currently Amended) The display control unit as defined in claim 12, wherein said γ-correction section generates a plurality of voltages based on said specified number of said γ-correction voltages, and said voltages of display data signals are selected from said plurality of voltages generated by said γ-correction section based on said set of external data signals.